Earth’s Forces

Study Guide

Vocabulary Words to Know (look back in notes to find definitions)

* Friction
* Mass
* Speed
* Unbalanced force
* Balanced force
* Gravity
* Acceleration
* Force

Concepts to Understand

* Friction – when is it used, when is it reduced
  + Example : Friction is used when you wear shoes on a wood floor, friction is reduced when you are just wearing socks
* Finding Speed (Speed = distance/time)
  + Examples
    - Find the average speed for someone who traveled 400km in 8 hours?
    - If someone was going an average speed of 45 km/hr how far would they get in 5 hours?
* Unbalanced forces
  + Can cause objects to speed up, slow down, or change direction
* Balanced Forces
  + Will continue to allow an object to move at a constant speed
  + Object may also remain stationary
* Acceleration
  + Regardless of the mass of an object if 2 objects are dropped at the same time from the same distance they will land on the floor together
* Gravity
  + The more mass an object has the stronger the force of gravity